

**SPEECH RECOGNITION SYSTEM FOR ELECTRONIC SWITCHES  
IN A NON-WIRELINE COMMUNICATIONS NETWORK**

**ABSTRACT OF THE DISCLOSURE**

5 An advanced telecommunications system is provided for the  
recognizing of spoken commands over a cellular telephone,  
satellite telephone, or personal communications network. In  
the cellular application, for example, a Speech Recognition  
System interconnects either internally with or as an external  
peripheral to a cellular telecommunications switch. The  
10 Speech Recognition System includes an administrative  
subsystem, a call processing subsystem, a speaker-dependent  
recognition subsystem, a speaker-independent recognition  
subsystem, and a data storage subsystem. The Speech  
Recognition System also allows for increased efficiency in the  
15 cellular telephone network by integrating with the switch or  
switches as a shared resource. The administrative subsystem  
of the Speech Recognition System is used to keep statistical  
logs of pertinent call information. Pre-recorded  
instructional messages are stored in the memory of the call  
20 processing subsystem for instructing a user on his or her  
progress in using the system. The speaker-independent  
recognition subsystem allows the user to interact with the  
system employing non-user specific functions. User specific  
functions are controlled with the speaker-dependent  
25 recognition subsystem. User specific attributes collected by  
the recognition subsystems are stored in the data storage  
subsystem.